Atty: David E. Wigley, Ph.D.

Phone # 404.815.6500

Sheet 1 of 11

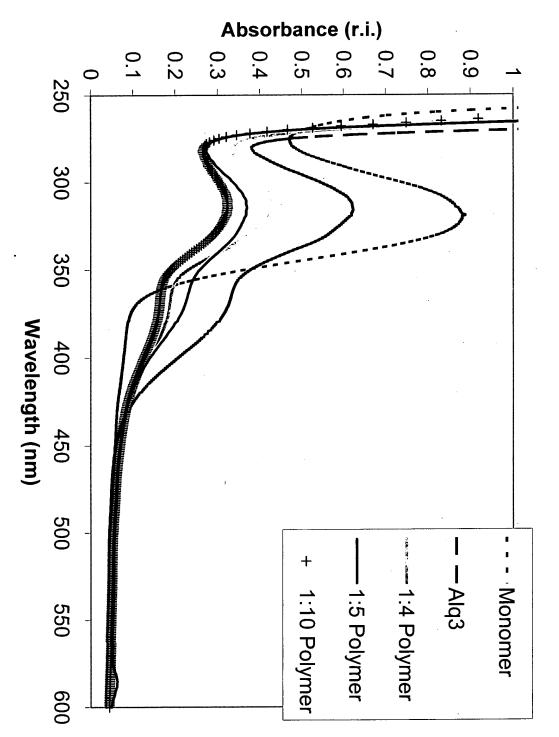


FIGURE 1

Sheet 2 of 11

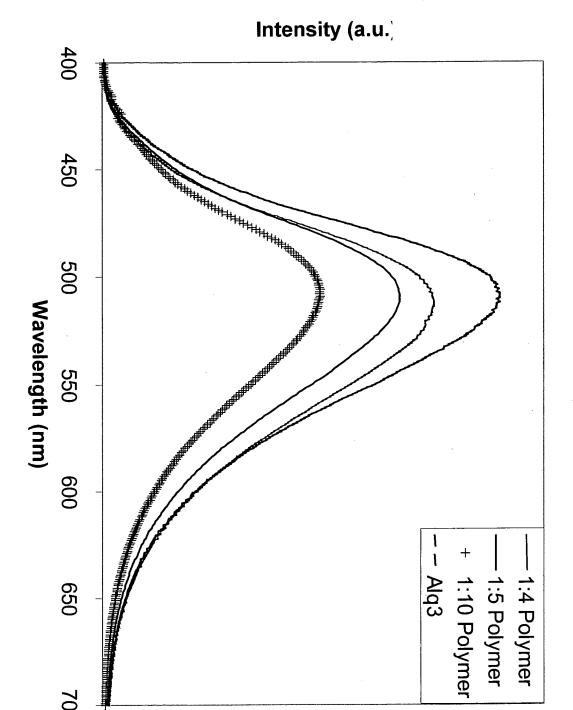


FIGURE 2

Express Mail Label EV 333520174 US Inventors: Marcus Weck and Anny Meyers Title: METAL 8-HYDROXYQUINOLINE-FUNCTIONALIZED POLYMERS AND RELATED MATERIALS AND METHODS OF MAKING AND USING THE SAME

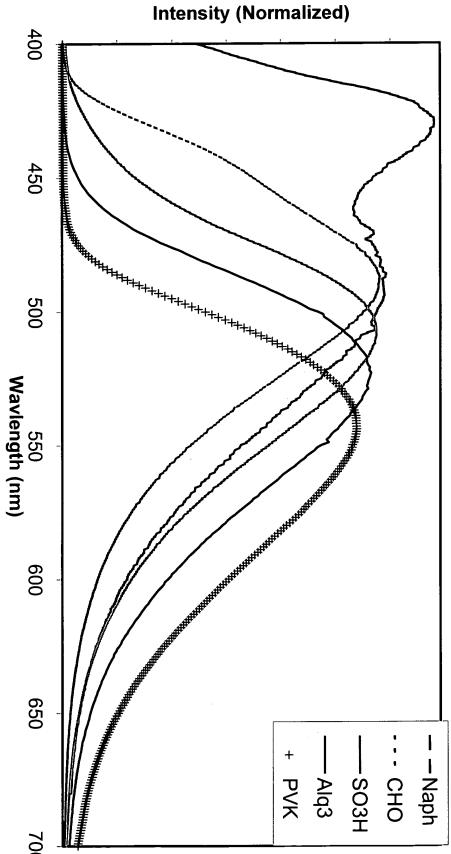
Atty: David E. Wigley, Ph.D.

Phone # 404.815.6500

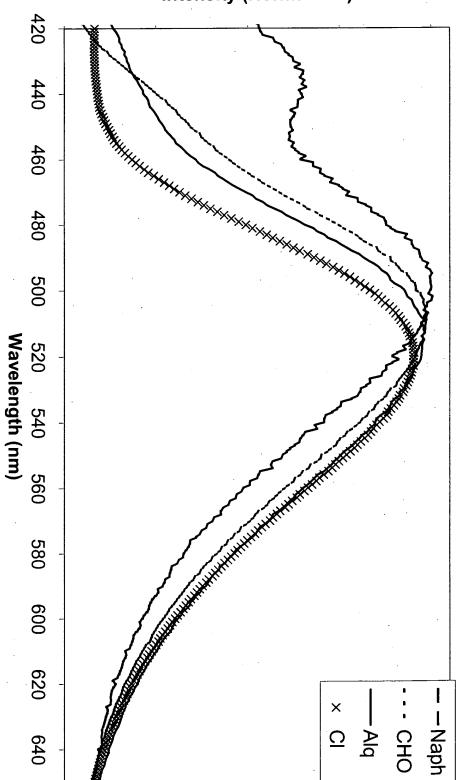
Sheet 3 of 11

FIGURE 3

Atty: David E. Wigley, Ph.D. Sheet 4 of 11

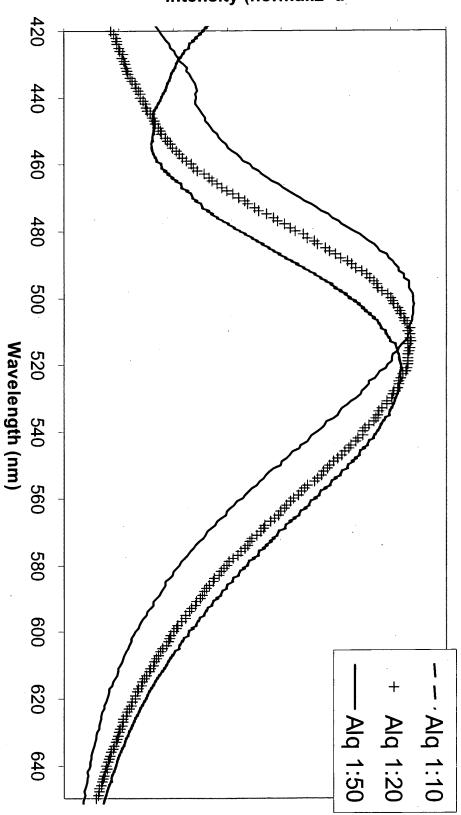






Atty: David E. Wigley, Ph.D. Sheet 6 of 11 Phone # 404.815.6500

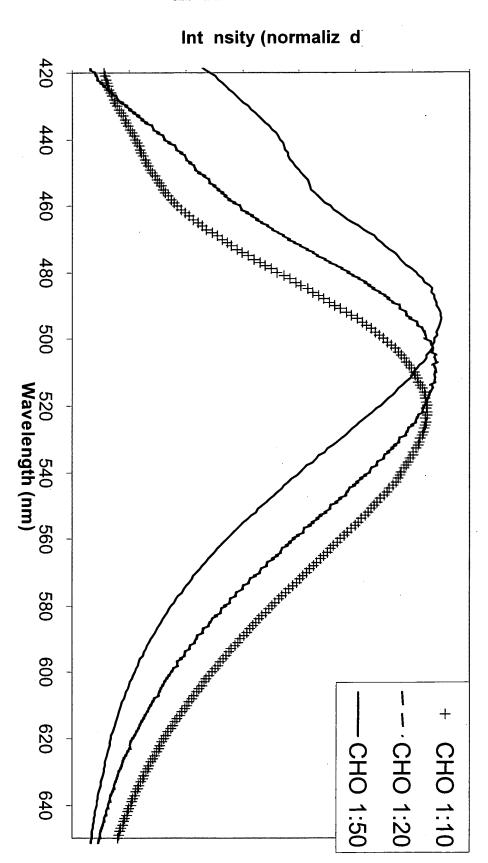




Atty: David E. Wigley, Ph.D.

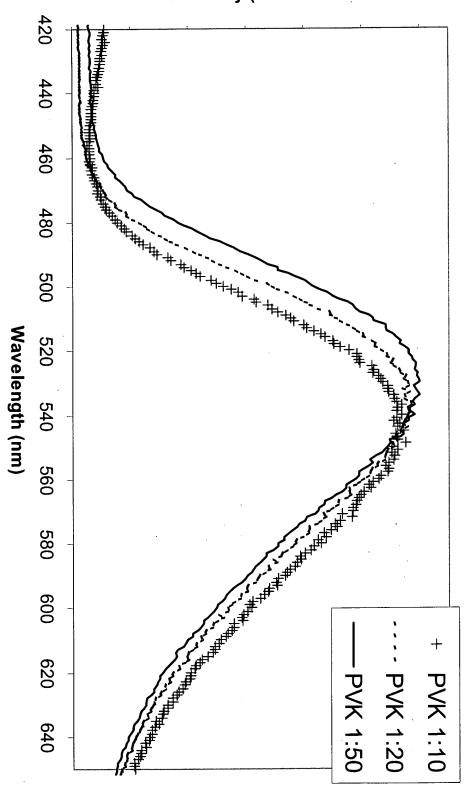
Phone # 404.815.6500

Sheet 7 of 11





Intensity (normalized



Atty: David E. Wigley, Ph.D. Sheet 9 of 11

Phone # 404.815.6500

FIGURE 9

Tungsten-Based Initiators

X = CI, Br, I

R = n-Bu, sec-Bu, t-Bu, Ph, Et, i-Pr

 $R' = CH_2$ -t-Bu, 2,6-i- Pr_2 - C_6H_3 , $CMe(CF_3)_2$,

Molybdenum-Based Initiators

Ar' = phenyl, 2,6-Me₂-C₆H₃, 2,6-i-Pr₂-C₆H₃ R = Et, Ph, CH₃Si, CMe₂Ph, t-Bu, CMe₃ R' = CMe₃, CMe₂-CF₃, CMe(CF₃)₂, C(CF₃)₂, Ar

Ruthenium-Based Initiator

R = Me, Et, Ph, 4-NO₂-Ph, 4-NMe₂-Ph 4-MePh, 4-MeOPh, 4-ClPh, 4-BrPh

R' = Ms, $CHCH_3Ph$,

 $\mathsf{R"} = 2,6 - \mathrm{i} - \mathsf{Pr}_2 - \mathsf{C}_6 \mathsf{H}_3, \ 2,6 - \mathsf{Me}_2 - 4 - \mathsf{MeO} - \mathsf{C}_6 \mathsf{H}_3, \ 2,6 - \mathsf{Me}_2 - 4 - \mathsf{Br} - \mathsf{C}_6 \mathsf{H}_3, \ 2,6 - \mathsf{Cl}_2 4 - \mathsf{CF}_3 \mathsf{C}_6 \mathsf{H}_3$

 $R''' = H, 4-NO_2, 6-Me-4-NO_3$

Atty: David E. Wigley, Ph.D.

Sheet 10 of 11

